Building the 2008 and 2009 ShmooBall Launchers

Its a series of tubes! Pneumatic tubes!

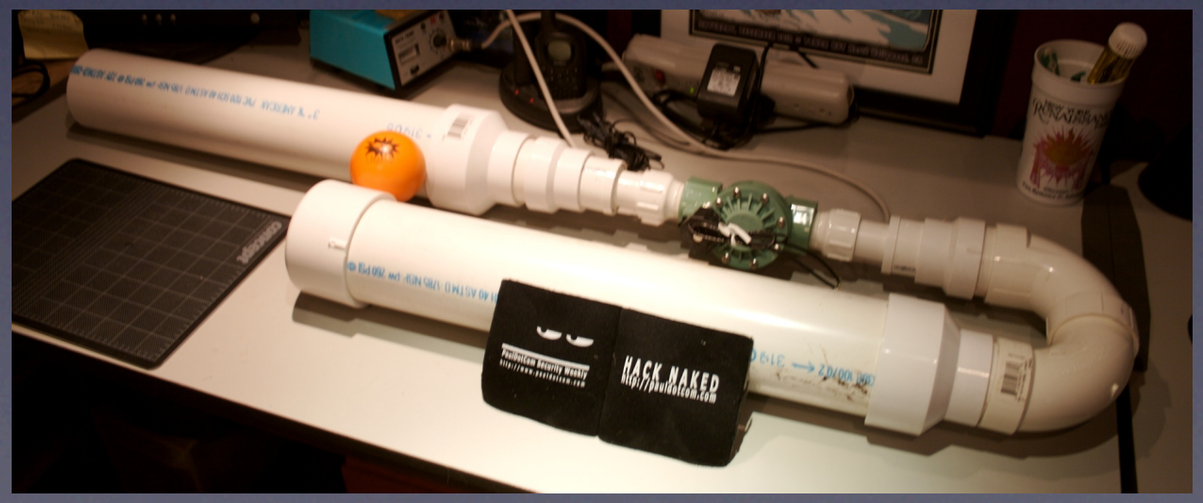
Introductions

Larry Pesce
PaulDotCom Enterprises

David Lauer
Security Justice

Larry's Designs

- Potato cannon based
- Shoulder fired
- Holding tank filled from CO2 tank
- Loosely Paintball marker based
- The "Pistol"
- Direct fed from CO2 tank



Don't forget to mention GGDT (Gas Gun Design Tool), and the guy that wrote David Hall. He's a Mechanical Engineer employed at the Naval Air Warfare Center, Weapons Division, Ordnance Test & Evaluation Branch. These days he tests bombs, rockets, and guns.

Larry's Safety Considerations

- No Fire!
- Exploding PVC = Shrapnel
- Unmodified sprinkler valves
- Double action trigger

- Under designed
- Projectile contact with target

Larry's Build Issues

- Complete lack of fittings
- Finding appropriate valves
- 2.75" ID tubing
- Temperature
- TIME!

How it started for Dave

- Matt Neely did a talk in Cleveland about Shmoocon.
- I saw the Hak5 video of the cannon from 2007.
- I can do that better. So I did at Shmoocon 2008

"You had better not destroy the leaf blower!"

- The Wife

v1 Assembly Pictures

It's better to dry stuff in warmer weather.

Shmoocon Attack 2008

Thank you GMI!

Notacon 2008

Video doesn't work so well in PDF. Check out the video here:
http://www.youtube.com/watch?v=y6kpNcUHqyU

Shmoo Cannon v2

- Changed Ball tube to a Hopper.
- Made barrel 2 ¾” from 3”
- Added Camera with Laser pointer.

WARNING!

This next slide may be disturbing to sensitive viewers

(it is a picture of Dave waxing his balls...)

Turtle

Closing Thoughts

- Volunteer!
  - Cons don't happen on their own!
  - They almost always need help.
  - Helping with cleanup at the end of the con is a good way help.
- Buy the DVDs
  - If you like the video's you've seen of last years Con that you downloaded, Please support Ted and buy some this year.
- We'll do some demos...

Thanks!

- Shmoo Group for the Con
- Our wives
  - Dave's for letting him get the Leaf blower
  - Larry's for time in the workshop
- You, for coming to hear us drone on!

Shameless Plugs

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